



Ornamental Ironwork



TENNESSEE FABRICATING COMPANY

"America's Foremost Ornamental Iron Plant"

1490 GRIMES STREET, MEMPHIS, TENNESSEE



This catalog is compiled to assist you in selecting and specifying ornamental iron grillework.

Shown in the following pages are only a few of the innumerable cast iron and wrought iron designs which are available through Tennessee Fabricating Company and their facilities. Also shown are fabrication drawings and simplified specifications for your use.

With modern equipment in over 75,000 square feet of production floor space, skilled mechanics and craftsmen at TFC carefully produce ornamental iron of superb quality. The TFC Plant can supply any ornamental iron requirements—regardless of design or dimensions.

TFC Ornamental Iron costs no more—usually less—than other building materials comparable in appearance . . . and ornamental iron lasts forever!

Ornamental Ironwork

unlimited
universal
applications

ANY ARCHITECTURE
ANY PERIOD
ANY LOCALE

residential • commercial
interiors • exteriors



Columns	Guard Rails
Brackets	Weathervanes
Stair Rails	House Markers
Picture Windows	Yard Markers
Cornices	Trellises
Friezes	Outside Lamps
Crestings	Doors
Garden Gates	Balconies
Driveway Gates	Flower Boxes
Fences	Mail Box Stands
Door Grilles	Window Shutters
Window Grilles	Wall Vents
Panels	Arches
Partitions	Screens
Garden Furniture	Jardinieres
Trims	Signs
Summer Houses	Urns
Carports	Window Guards
Trellage	Foot Scrapers
Wall Rail	Specialties

Definitions

It is easier to specify details of ornamental ironwork when definitions and illustrations are readily at hand. Following is a list of the most important terms of the trade.



C.I.



W.I.

Ornamental Cast Iron is grillework made up with ornamental cast iron castings and steel structural members.

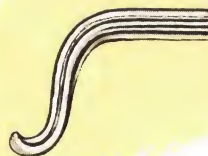
Ornamental Wrought Iron is grillework made with hand-wrought steel scrolls to effect the designing as well as structural strength.

NOTE: Many ornamental iron applications involve the use of both cast and wrought ironwork.



VOLUTE

A decorative rail ending. The cover along the top of the rail is hand-rolled into a scroll which turns under as illustrated. Also called a "head scroll".



LAMB'S TONGUE

A decorative way to end a rail. The cover along the top of the rail is hand-rolled into the design as illustrated. A lamb's tongue or volute is used when a lateral is not required.



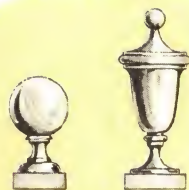
LATERAL

A more elaborate way to end a rail. Laterals are actually cast pieces welded on to match rail cover. Pickets and newel post are beneath. Illustration is plan view. Used on bull-nose steps or where extra ornamentation is desired. Appropriate diameters: 6" to 10".



END SCROLL

A decorative wrought iron scroll welded at the end of a rail onto the last newel post. Gives the rail a finishing touch. This is used on both wrought iron and cast iron rails.



FINIAL

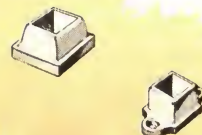
Decorative piece for the top of a railing newel post. Knob and Urn types illustrated. Available in steel or brass.

Standard Size Knobs—
1"—1 1/4"—1 1/2" diameter
Standard Size Urns—
3"—4" height



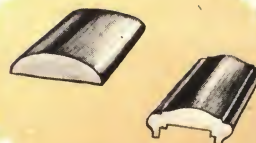
WALL BRACKETS

Used to support wall railing. Are attached directly to the wall. Support wall rail made up of steel channel, inverted, with a half-oval or molded cover.



SHOES

Are decorative collars for the bottoms of column legs and newels. "Plain" shoes drop over the spot where ironwork has been installed in concrete or masonry. "Flanged" shoes are necessary for wood floor installations. See illustrations.

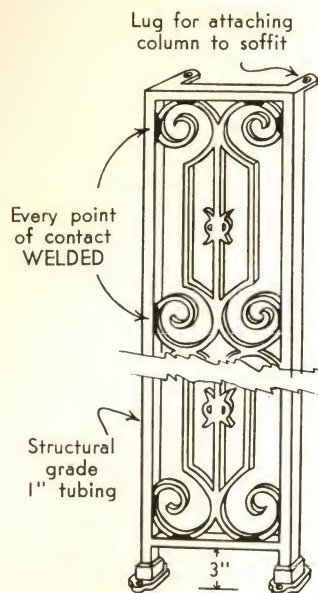


HAND RAIL

The top cover on a rail for appearance as well as ease of handling. Hand rails are either half-oval steel sections or molded steel sections as illustrated.

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COLUMN CONSTRUCTION

Direct load-bearing strength: single (flat) columns 3,000 pounds; angle (corner) columns 7,750 pounds; safety factor of 2. (Laboratory-tested).

Uprights up to 8'6" are 1-inch square structural* steel tubing; to 9'6", 1 1/4-inch square; to 10'6", 1 1/2-inch square.

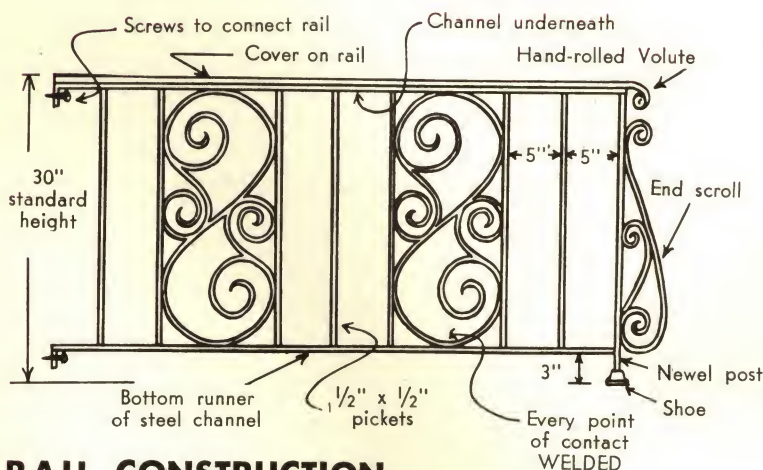
*Structural tubing — specially-drawn, hot-rolled, high-carbon tubing of required wall thickness to support tested load.

Top and bottom plates 3/8"x1" steel bars, welded to uprights. Lugs welded to top plate for fastening to structure.

Wrought or cast iron designs welded to frames at every contact point. All welds ground and tested for proper fusion.

Wrought Iron scrolls 3/16"x3/4" steel.

Note: To simplify, specify TFC architect's weight columns or equal.



RAIL CONSTRUCTION

Standard height: 30" above floor with 3" floor clearance.

Top and bottom runners of one-inch channel, punched to accept half-inch square pickets (balusters).

Pickets blind-welded in channel (see illustration).

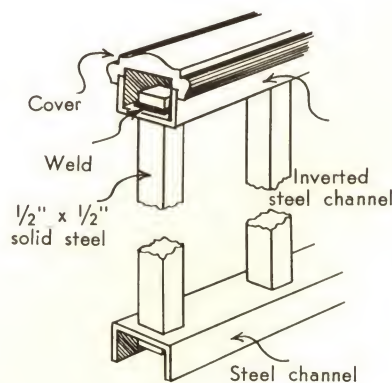
Hand rail welded to top runner.

Half-oval hand rail used on wrought iron railing; molded steel hand rail used on all cast iron rail. Wrought or cast iron design welded to both pickets and runners at all points of contact.

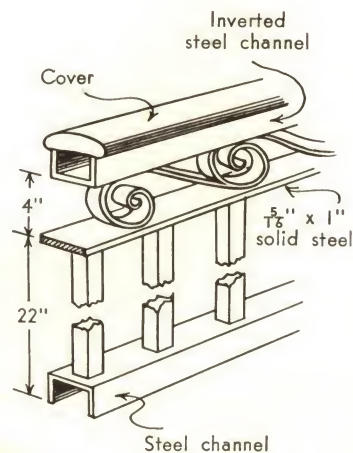
Newel post of one-inch square structural tubing, spaced a maximum of 7' apart.

Newels at all corners and ends where support is required.

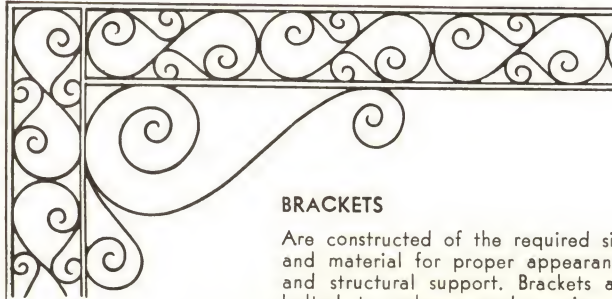
Note: To simplify, specify TFC architect's weight or equal.



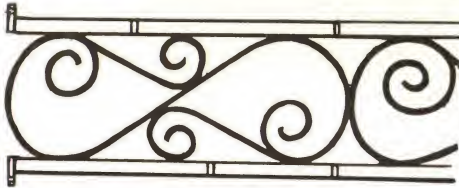
Illustrated in cross section the diagram at left shows clearly how pickets are punched through and blind-welded.



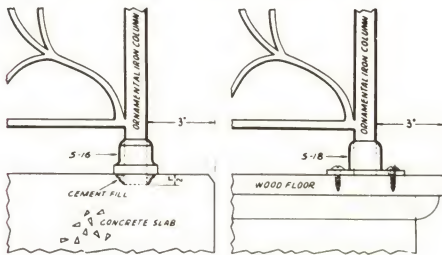
Shown at right is a "double cover" (sometimes called hand rail design) on railing, giving additional beauty and distinction. Intermediate runner 3/8"x1" bar with inverted channel top runner and bottom runner channel also.

**BRACKETS**

Are constructed of the required size and material for proper appearance and structural support. Brackets are bolted to columns and cornice or screwed to surfaces when used alone.

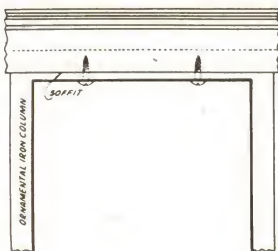
**CORNICES**

Are made with design to match columns. Standard framework 3/8" x 1" steel bar unless heavier material required. Cornices bolt to columns and screw to other surfaces.

**How to Install TFC Columns**

For anchoring in concrete, drill holes 1/2" deep with star drill or cold chisel. Holes should be 3" from edge and lined up with soffit, using a plumb line. After legs are in place, fill with cement mortar. If using shoe, slip over column legs before setting.

For anchoring to wood floor, use flanged shoe and screw tightly to floor boards.

**HOW TO SELECT ORNAMENTAL IRON****Wrought iron scrolls**

Are heat-drawn, feather-edged. Hand-rolled with sufficient turns to give fullness of design.

Castings

Castings are made of pure pig iron for even texture. Cleaned by wheelabrator, airless abrasive blasting process. Smooth finish, intricate detail, free as possible of foundry defects. TFC castings are of the finest quality available.

Tubing

Is specially-drawn from high-carbon steel for TFC, tested as the best for ornamental iron grillework.

Welding Electrodes

TFC Welding Electrodes have been researched and developed especially by major manufacturers for welding ornamental iron grillework.

Insurance

Every piece of TFC Ornamental Iron Grillework is fully covered by a \$100,000 products liability insurance assuring the owner of the very highest quality and safety.

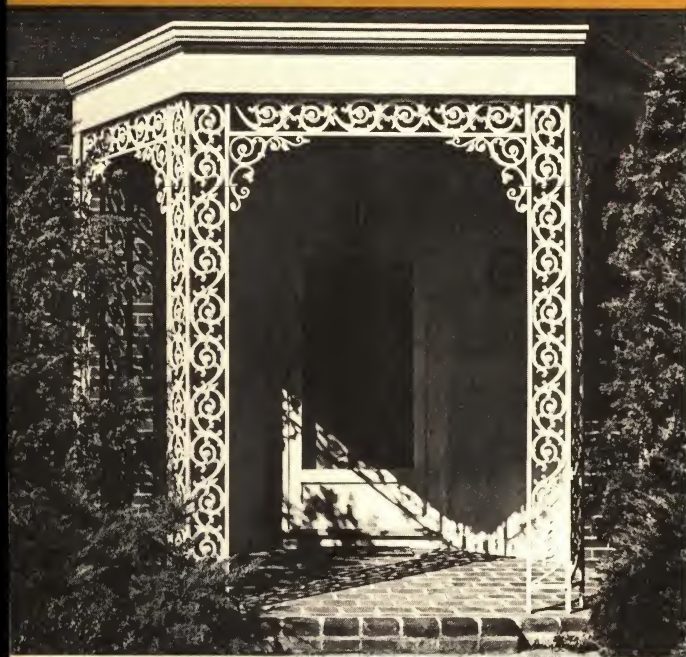
How TFC Can Serve You

To simplify your specifications you need only specify TFC architect's weight grillework. This assures you of receiving all the features outlined on these pages.

The specifications shown are the result of surveys of the requirements of architects nationally.

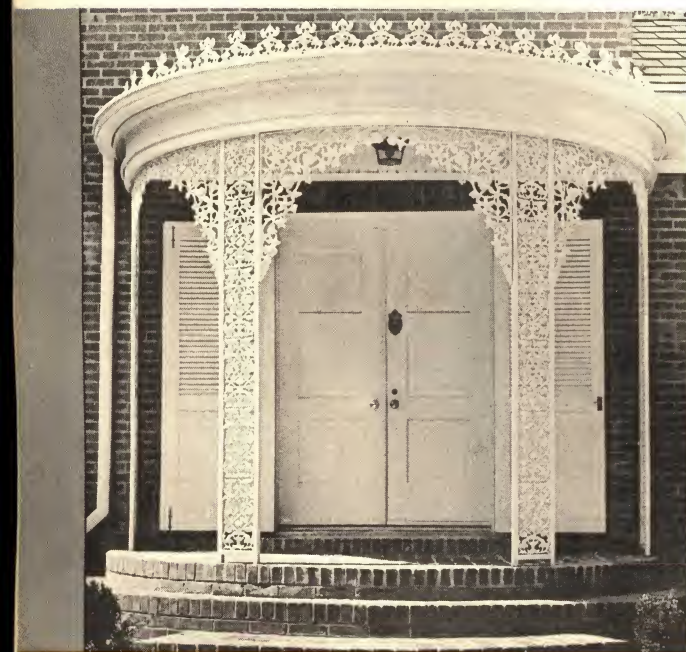
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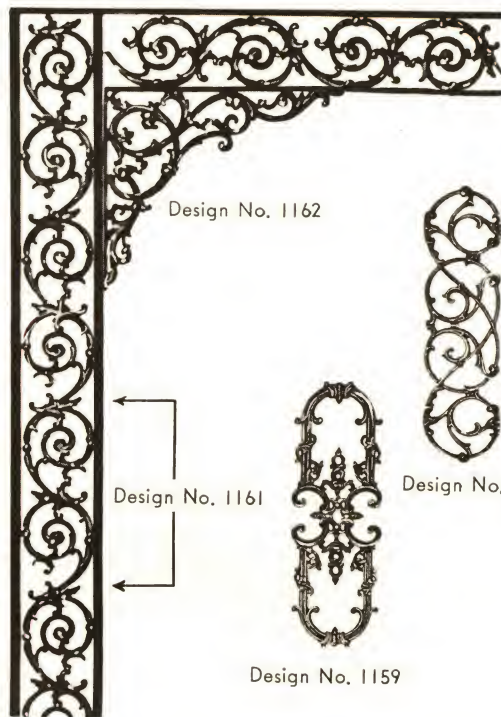


C.I.

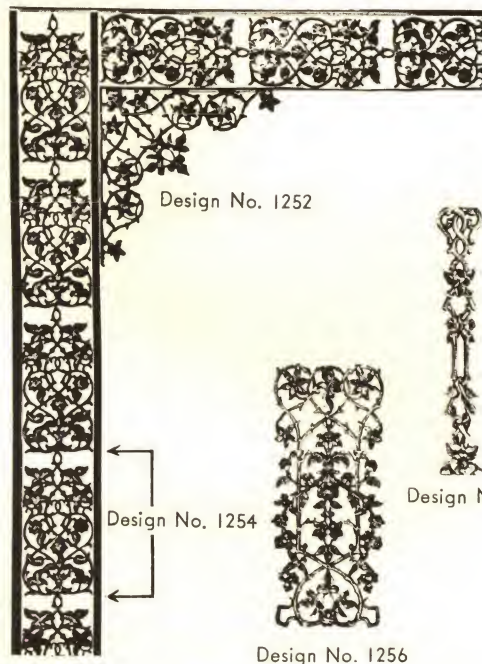
Illustrated on these pages are a few of the hundreds of designs available in cast iron. Many other matching pieces are in stock as well as other patterns not shown.



PONTALBA

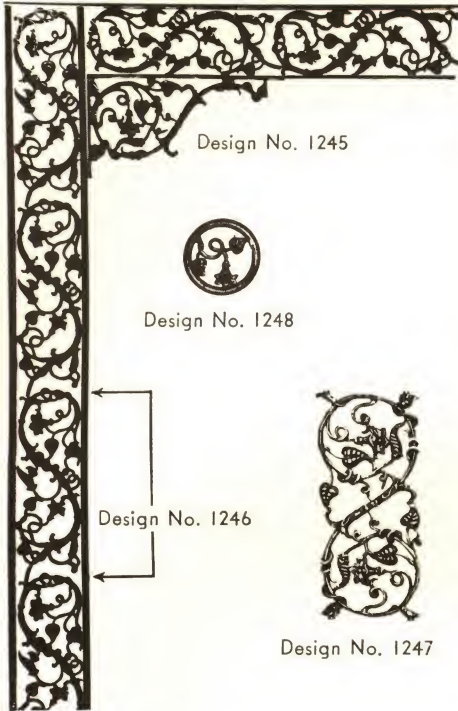


PASSION FLOWER

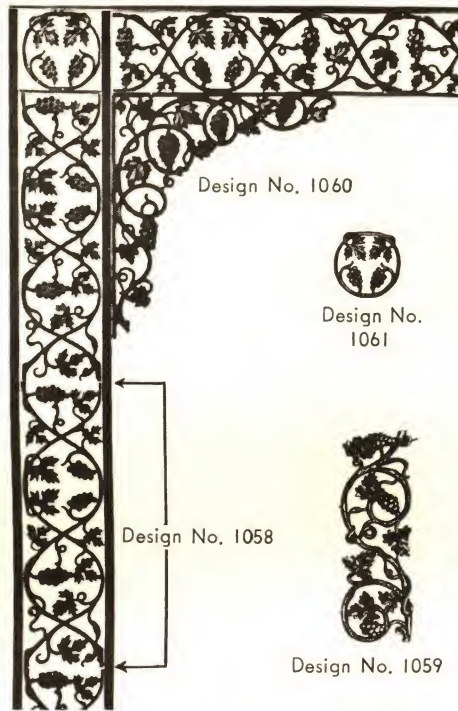




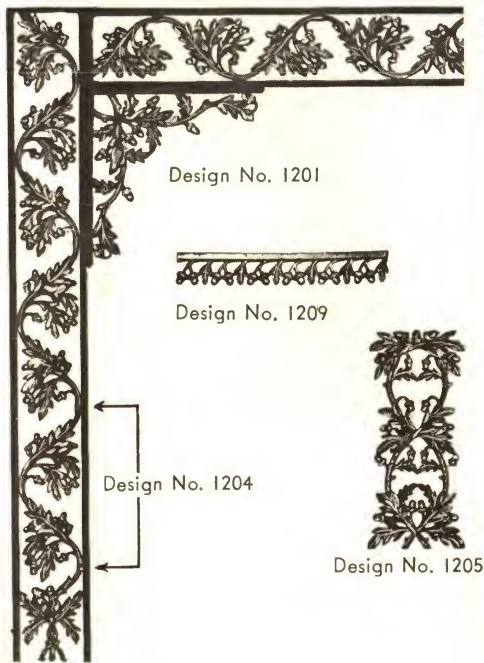
MORNING GLORY



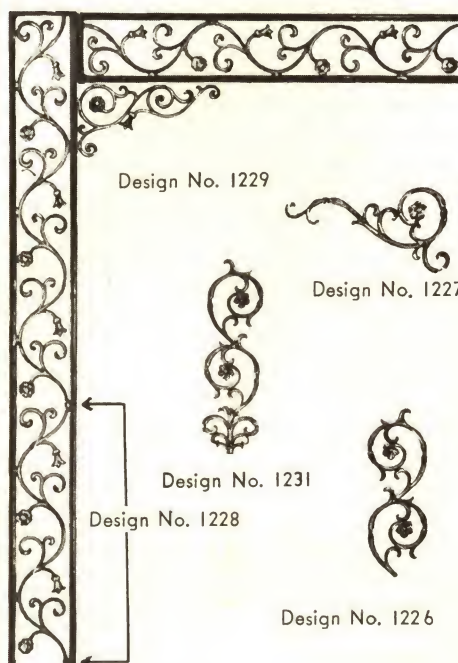
GRAPE OR VINEYARD



SMOOTH OAK



DOGWOOD



NUMBER	HEIGHT INCHES	WIDTH INCHES	WEIGHT LBS.	DESCRIPTION*
†1245	14	26 3/4	16	SF
1246	27	9	11 1/2	SBO
1247	25 1/2	11 1/2	17 1/4	SBO
1248	9	9	4 3/4	SBO
1060	36 3/8	36 3/8	30	DF
1058	30	8 1/4	11 1/4	DF
1059	25 1/2	9 1/4	12 1/4	DF
1061	8 1/4	8 1/4	3 1/4	DF
1201	21 3/4	21 3/4	12 1/2	SBO
1204	23 1/4	8 3/8	6	SBO
1205	26 1/2	11 3/4	12	SBO
1209	4	25 5/8	7 1/4	SBO
1227	10	19 1/2	6 3/4	DF
1228	33	6 3/4	6	DF
1229	9 1/2	18	4	DF
1226	20 1/4	7 1/4	6 1/2	DF
1159	28	9 1/2	12 1/2	DF
1161	21	7 1/2	5 1/4	SBO
†1162	21	24 3/4	11	SBO
1165	29 3/4	8 1/4	8 3/4	SBO
1252	21 3/4	21 3/4	12	DF
1254	18 1/2	8 3/4	8 1/4	DF
1256	29	13	14 3/4	DF
1257	29	5	8	DF
1231	25 1/2	7 1/4	9	DF

*SF—"Single-Faced." Full detail on one side, fairly flat on back side.

*DF—"Double-Faced." Fully detailed on both sides.

*SBO—"Single-Faced, backed out." Full detail on one side, slightly hollowed out on back side.

†Available in right-hand and left-hand bracket.

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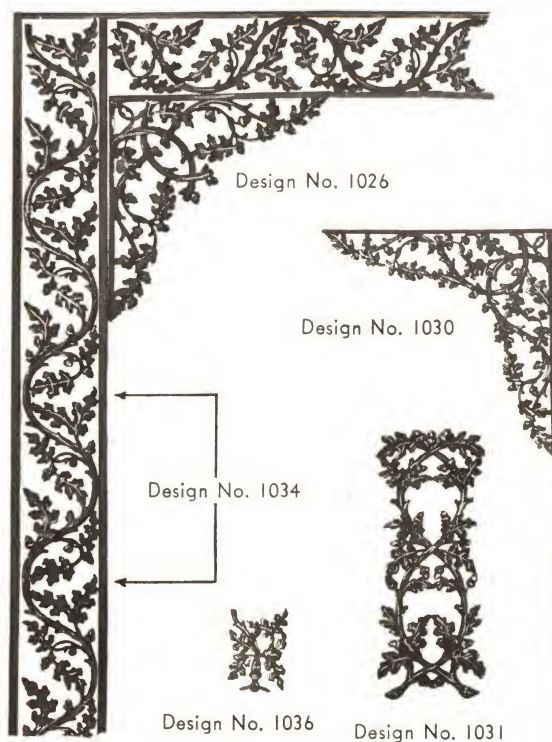


Ornamental Cast Iron offers an intricacy of design and detail not available in other building materials. Ornamental cast iron has greater compressive and tensile strength than any other cast ornamental metals used for this purpose.

C.I.

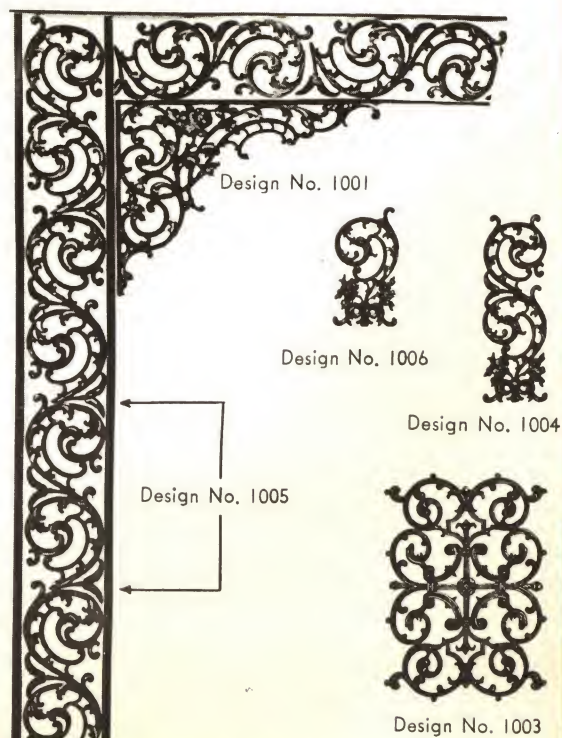


CURLY OAK



* See Description for Specifications.

BIRD OF PARADISE



* See Description for Specifications.

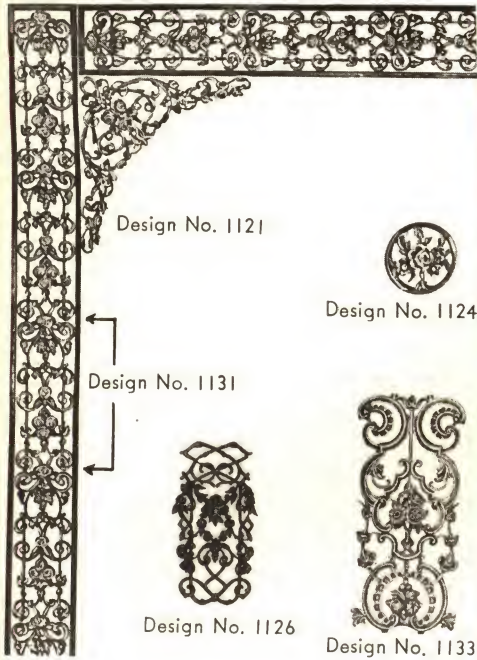


ORNAMENTAL IRON

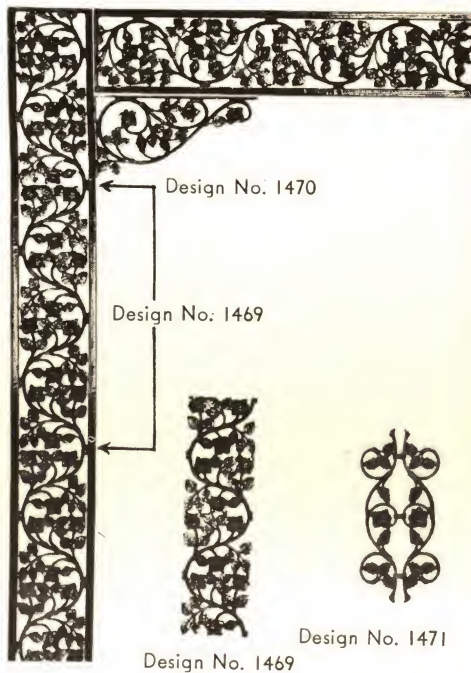
cast iron patterns

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Te

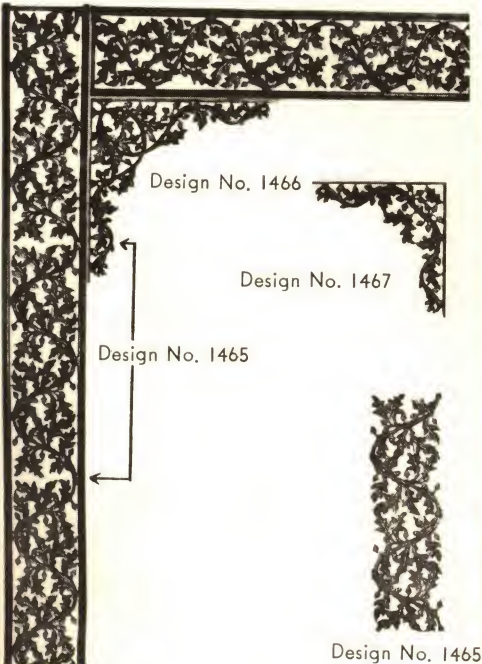
ROSE



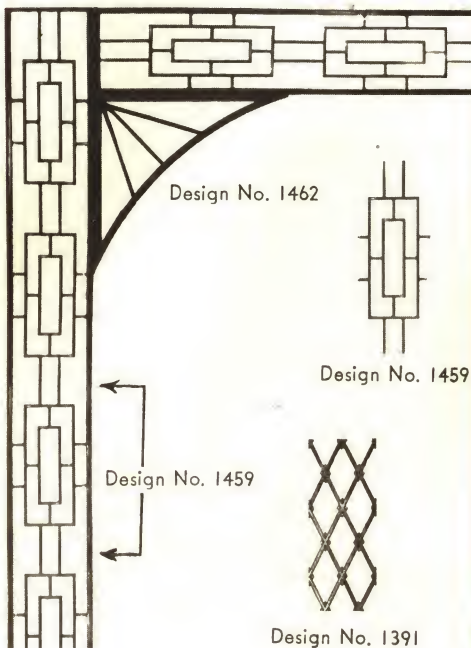
FLORABUNDA ROSE



LIVE OAK



MODERN



NUMBER	HEIGHT INCHES	WIDTH INCHES	WEIGHT LBS.	DESCRIPTION*
1001	30 1/2	23	22	DF
1003	27 3/8	9	14 3/4	DF
1004	32 1/2	23	28 1/2	SBO
1005	23 3/4	9	12 1/2	DF
1006	16 1/2	9	9	DF
1026	25	25	15 3/4	DF
1030	33 1/4	33 1/4	24 1/2	DF
1031	28 1/2	12	13 1/4	DF
1034	21 1/2	8 1/4	8	DF
1036	12	8 1/4	5 1/4	DF
1121	31	31	31 1/2	SF
1124	9	9	4 1/4	SF
1131	22 3/4	8 1/2	9	DF
1133	29	13 1/4	15 1/2	SBO
1469	28	8	10 1/4	DF
1470	9 3/4	18 3/4	7	DF
1471	8 1/8	18 1/2	5 3/4	DF
1465	28	8	9 1/2	DF
1466	21 3/4	21 3/4	9 1/2	DF
1467	15 1/2	15 1/2	6	DF
1459	32 3/4	10 1/2	8	DF
1462	24	24	10	DF
1126	29 1/2	15 1/2	21 1/2	SBO
1391	28 1/4	11 3/8	12	DF

*SF—"Single-Faced." Full detail on one side, fairly flat on back side.

*DF—"Double-Faced." Fully detailed on both sides.

*SBO—"Single-Faced, backed out." Full detail on one side, slightly hollowed out on back side.

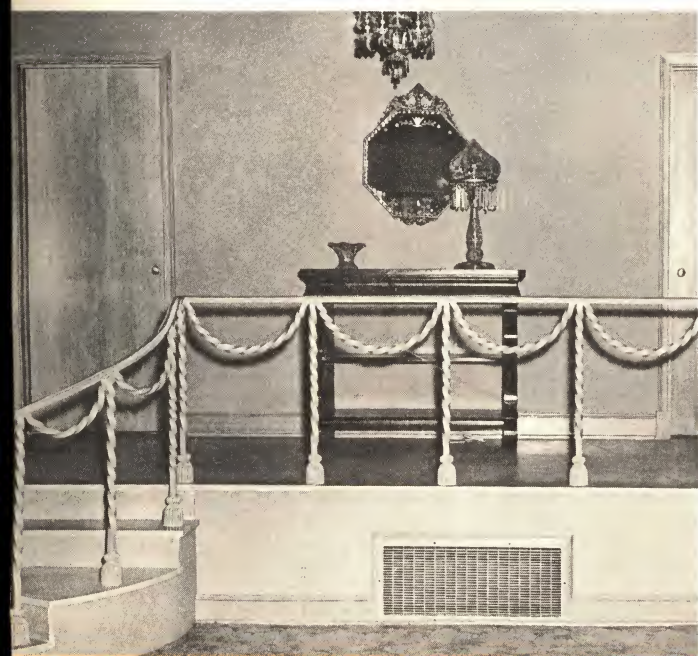
†Available in right-hand and left-hand bracket.

Tennessee Fabricating Co.



Designs of wrought iron are limitless—for both interior and exterior use. Ornamental wrought iron has greater structural strength than other grillework. Illustrated are only a few of the many popular TFC hand-wrought patterns.

W.I.



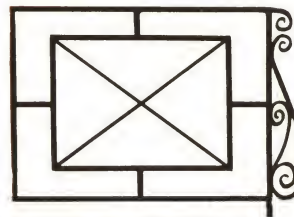
RAILING



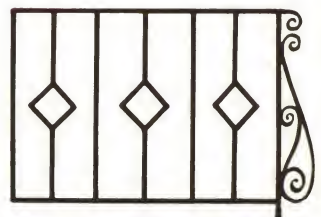
Design No. 410



Design No. 427



Design No. 421

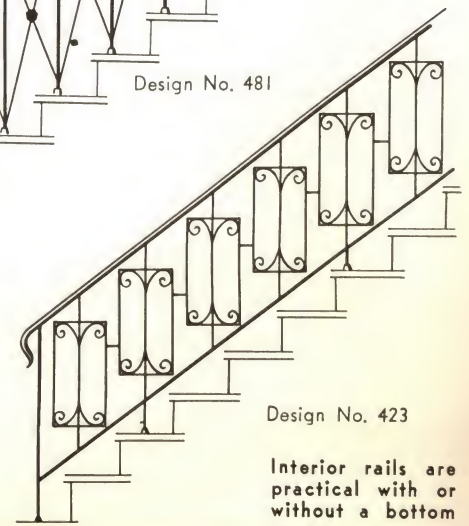


Design No. 418

INTERIOR RAILS



Design No. 481



Design No. 423

Interior rails are practical with or without a bottom runner.



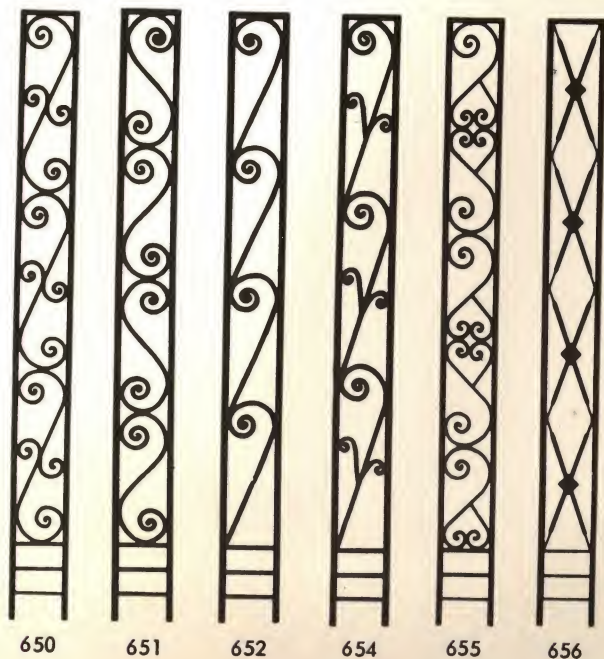
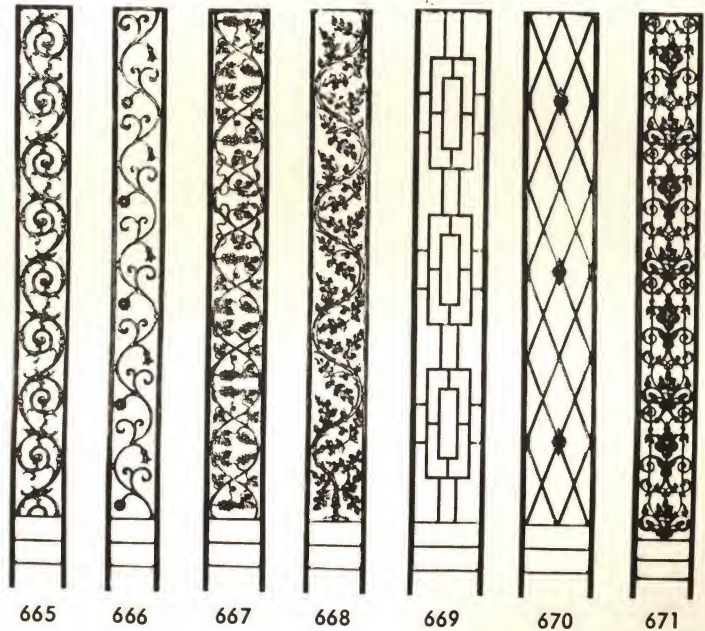
STANDARD ORNAMENTAL IRON COLUMNS

TFC Standard Ornamental Iron Columns are mass-produced to sell at slightly less costs than similar custom designs; they maintain the same high-quality standards. These columns are adjustable to desired height by cutting the bottom of the column at installation.

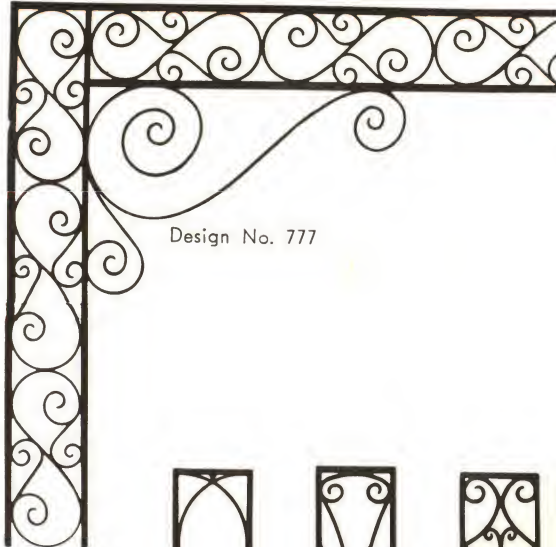
Regular.....8', adjustable to 7'3"

Short.....7'4", adjustable to 6'6"

All standard columns made in either angles or singles.



Design No. 677



Design No. 777

Design No.
610



Design No.
631



Design No.
607



Design No.
603

Illustrated above are only four of the many TFC designs of wrought iron columns. Matching cornices and brackets can be furnished. These are custom-built to structural requirements of each individual application. Customary column and cornice width: 10". Bracket sizes vary according to requirements.

Tennessee Fabricating Company



DEVELOPED ESPECIALLY FOR PAINTING ORNAMENTAL IRON, TFC ORNAMENTAL IRON FINISH is not a paint or enamel. It is a plastic product, weather and laboratory tested for finishing and refinishing ornamental iron.

TFC Ornamental Iron Finish is guaranteed to give full satisfaction and performance—to withstand Nature's elements and

weather under all conditions—including salt air.

TFC Ornamental Iron Finish is furnished in two types of primer, white, four pastel colors, gloss and satin black; toners are available to mix additional colors as desired. A special Antique finish can be furnished to produce Pompeian effects over basic colors.

TFC DESIGN-ENGINEERING DEPARTMENT ALWAYS AT YOUR SERVICE

From the creation of an entirely new design to the reproduction of a rare old masterpiece, TFC Design Engineers are capable and experienced in every phase of production and architectural requirements. Every design is planned for correct use in each application.

TFC Engineers are constantly improving and developing outstanding designs in iron work to give you an endless variety for your selection. You are invited to call on them for the solution of any problem in Ornamental Iron. TFC facilities are adequate to meet all requirements.

LITERATURE AVAILABLE

Complete catalogs, scale drawing sheets of all castings and application ideas are available for use in your offices. Booklets of

applications, both wrought and cast iron, are available for your clients. All this material will be sent you at no cost on request.



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